

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: METALUX

Report Number: P412512

Luminaire Tested: **24PD-40-PB1-L935**

Issue Date: 9/15/2020



**Test Information**

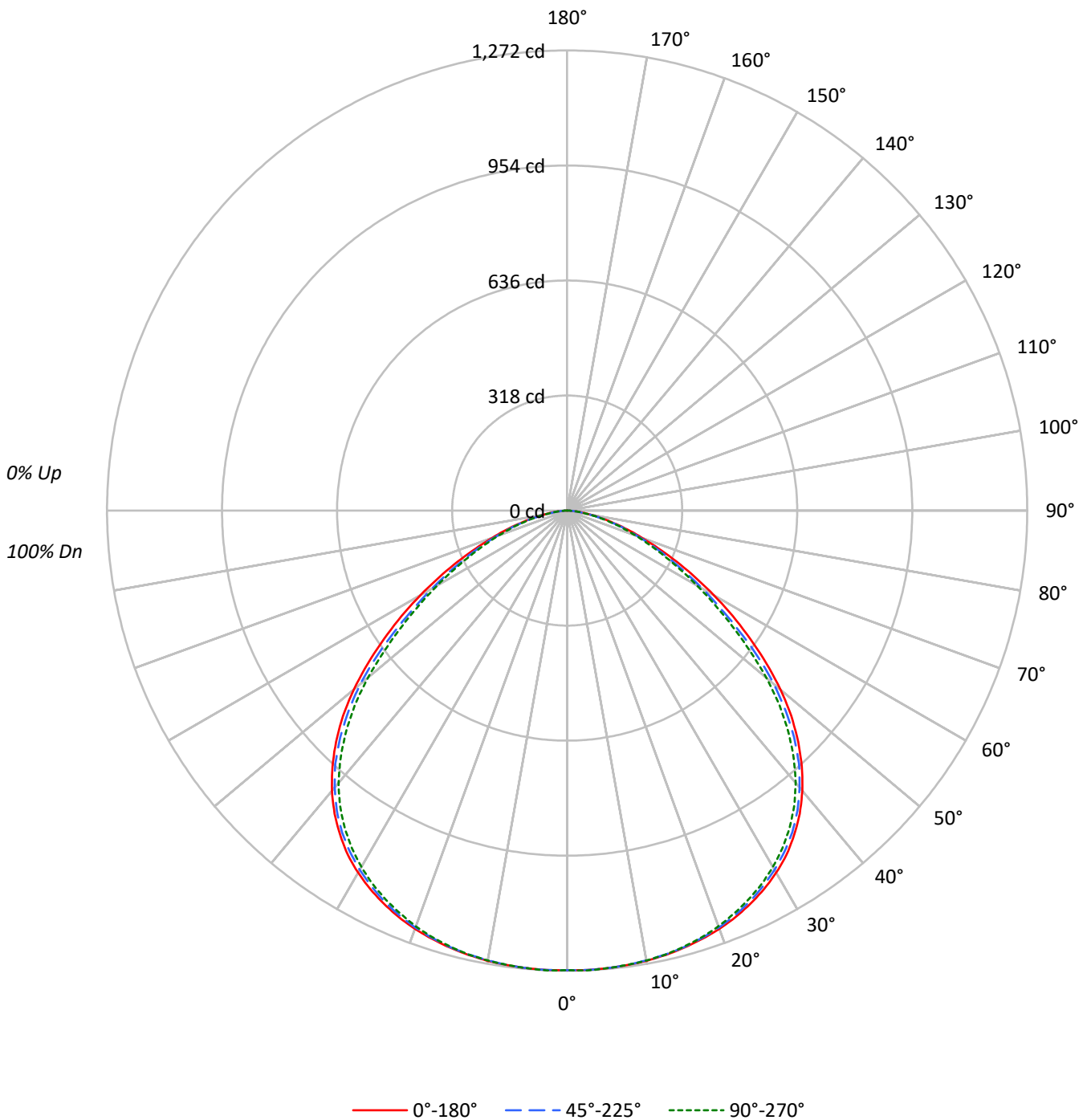
Test Method: LM-79-08  
Report Number: P412512  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-40-PB1-L935  
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3381.0 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1710	1710	1710
5°	1715	1715	1715
10°	1727	1725	1725
15°	1742	1740	1739
20°	1762	1756	1751
25°	1780	1771	1761
30°	1796	1781	1767
35°	1798	1782	1760
40°	1777	1756	1727
45°	1719	1688	1644
50°	1612	1562	1505
55°	1449	1363	1307
60°	1262	1161	1116
65°	1061	982	939
70°	865	821	788
75°	693	669	641
80°	532	490	477
85°	333	323	323



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.0	3.6
10°-20°	353.1	10.4
20°-30°	550.1	16.3
30°-40°	676.7	20.0
40°-50°	679.7	20.1
50°-60°	523.9	15.5
60°-70°	311.0	9.2
70°-80°	138.5	4.1
80°-90°	27.0	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1024.2	30.3
0°-40°	1700.9	50.3
0°-60°	2904.5	85.9
0°-90°	3381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3381.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1271	1271	1271	1271	1271	
5°	1270	1270	1270	1269	1270	121
15°	1251	1251	1249	1247	1248	354
25°	1199	1199	1193	1188	1186	553
35°	1094	1093	1085	1076	1072	683
45°	904	901	887	872	864	694
55°	618	606	581	563	557	552
65°	333	319	308	297	295	333
75°	133	131	129	124	123	144
85°	22	20	21	20	21	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1270.6	1270.6	1270.6	1270.6	1270.6
2.5°	1271.3	1271.0	1271.0	1269.6	1272.3
5°	1269.9	1270.3	1269.9	1268.6	1269.9
7.5°	1267.3	1267.6	1266.9	1265.6	1266.9
10°	1263.9	1263.9	1262.5	1261.9	1262.9
12.5°	1258.2	1258.2	1256.8	1255.8	1256.8
15°	1250.8	1250.8	1249.1	1247.0	1248.1
17.5°	1241.7	1241.7	1239.0	1236.3	1236.9
20°	1230.5	1230.2	1226.5	1222.8	1223.1
22.5°	1216.4	1216.1	1211.4	1207.0	1205.6
25°	1199.2	1198.9	1193.2	1187.8	1186.4
27.5°	1179.4	1178.0	1171.6	1165.6	1164.2
30°	1155.8	1154.8	1146.4	1140.3	1137.6
32.5°	1128.5	1125.8	1118.1	1110.7	1107.0
35°	1094.5	1092.8	1085.1	1076.0	1071.6
37.5°	1056.1	1054.4	1046.0	1035.9	1030.8
40°	1011.6	1010.3	999.9	989.4	983.0
42.5°	960.5	959.5	948.3	933.9	927.1
45°	903.5	901.2	887.0	872.2	864.1
47.5°	840.2	836.2	819.0	804.9	796.1
50°	770.2	764.8	746.3	728.1	719.0
52.5°	694.4	685.0	665.8	644.9	636.2
55°	617.6	605.8	580.9	563.4	557.0
57.5°	542.5	525.4	501.8	489.3	482.9
60°	468.8	449.9	431.4	419.3	414.9
62.5°	398.4	382.6	366.7	354.6	351.9
65°	333.4	318.9	308.5	296.7	295.0
67.5°	272.8	266.0	256.6	246.5	245.2
70°	219.9	217.2	208.8	202.7	200.4
72.5°	175.5	172.8	166.7	162.3	161.6
75°	133.4	130.7	128.6	124.3	123.3
77.5°	95.0	95.3	93.6	91.3	91.9
80°	68.7	64.7	63.3	62.0	61.6
82.5°	42.1	39.7	38.7	38.4	39.1
85°	21.6	20.5	20.9	19.9	20.9
87.5°	7.4	7.4	7.7	7.4	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)